Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:
Listing of Claims:

	1. (currently amended) A member for air motors in
which the	surface thereof, having a complex shape,
-	is heated at 450 to 580°C in a mixed gas atmosphere
comprising	50 to 95% of hydrogen, and 5-50% of nitrogen and
hydrogen s	sulfide,
	a DC voltage at 300 to 500V is applied relative to
an anode	
	disposed in a vacuum chamber under reduced pressure
and	
	a nitrosulphurization layer having a substantially
uniform th	nickness of about 30-300 μm is formed on the surface
with a Vic	ekers hardness of 800-1200,
	by using a bright nitrogen diffusion method, and
	wherein said member is at least one of a rotor,
cylinder,	a front cylinder, and a rear cylinder.

2. (currently amended) A member for air motors as defined in claim 1, wherein the nitrosulphurization layer at the uppermost surface of the member has a mean Vickers hardness of about 1100. 800 to 1200 of Vickers hardness.

- 3. (original) A member for air motors as defined in claim 1, wherein the ratio between the nitrogen sulfide in the gas mixture is from 0.01 to 99 parts by volume of the hydrogen sulfide content based on 100 parts by volume of the nitrogen content.
- 4. (currently amended) A member for air motors as defined in claim 1, wherein the member is one two or more of the rotor, cylinder, and front cylinder cover and the rear cylinder cover.
- 5. (previously presented) A member for air motors as defined in claim 2, wherein the ratio between the nitrogen sulfide in the gas mixture is from 0.01 to 99 parts by volume of the hydrogen sulfide content based on 100 parts by volume of the nitrogen content.
- 6. (previously presented) The member of claim 5, wherein said surface comprises a quenched and tempered die steel.
- 7. (previously presented) The member of claim 5, wherein the inside of the vacuum chamber is evacuated to about $10^{-3} \ \text{torr.}$

- 8. (previously presented) The member of claim 7, wherein said nitrosulphurization layer is formed over 1-30 hours.
- 9. (previously presented) The member according to claim 5, wherein the N_2/H_2 volume ratio is 1:10 to 2:1.
- 10. (previously presented) The member of claim 9 wherein the mixed gas atmosphere also contains an inert gas.
- 11. (previously presented) The member of claim 10, wherein the voltage is 380-460 V, the hydrogen partial pressure is 80, the hydrogen sulfide partial pressure is 5-15, and the nitrogen partial pressure is 15-5.

_____then reducing the temperature over a period of about four hours in a nitrogen atmosphere substantially free of hydrogen and hydrogen sulfide, and

the resultant nitrosulphurization layer has a thickness of about 0.14 mm and a surface Vickers hardness varying between 1080 and 1150.

13. (previously presented) An air motor comprising a rotor (2) supported by bearings (7, 8) fitted to a front cylindrical cover (5) and a rear cylindrical cover (6) disposed about said rotor (2); a cylinder (4) disposed within said front cylindrical cover (5) and rear cylindrical cover (6) and disposed about said rotor (2) with a partial annular space (11) defined between said rotor (2) and said cylinder (4); means for feeding air to the space between the rotor (2) and the cylinder (4) and means for exhausting air from the space between the rotor (2) and the cylinder (4); and wherein at least the inner wall of said cylinder (4) comprises the member of claim 1.